AMENDMENTS TO THE CLAIMS

Applicant presents a full set of claims for the convenience of the Examiner. No amendments of the claims have been made.

- 1-146. (Cancelled)
- (Previously Presented) A method for inducing a mucosal immune response, comprising

mucosally administering to a subject an oligonucleotide 8 to 100 nucleotides in length and comprising 5' X1X2CGX3X43' wherein C is unmethylated and X1, X2, X3, and X4 are nucleotides, and an antigen that is not encoded in a nucleic acid vector, and

systemically administering to the subject the antigen.

- 148. (Previously Presented) The method of claim 147, wherein the oligonucleotide and antigen are administered mucosally as a priming dose, and the antigen is administered systemically as a boost dose.
- 149. (Previously Presented) The method of claim 147, wherein the antigen is administered systemically as a priming dose, and the oligonucleotide and antigen are administered mucosally as a boost dose.
- 150. (Previously Presented) The method of claim 147, wherein the antigen is administered systemically with a CpG oligonucleotide 8-100 nucleotides in length and comprising 5' X1X2CGX3X4 3', wherein C is unmethylated, wherein X1, X2, X3, and X4 are nucleotides.
- 151. (Previously Presented) The method of claim 147, wherein the oligonucleotide and antigen are administered mucosally with a non-nucleic acid mucosal adjuvant.

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152. (Previously Presented) The method of claim 147, wherein the antigen is administered systemically with a non-nucleic acid mucosal adjuvant.

- 153. (Previously Presented) The method of claim 150, wherein the antigen is administered systemically with a non-nucleic acid mucosal adjuvant.
- 154. (Previously Presented) The method of claim 147, wherein the antigen is a polypeptide or a peptide.
- 155. (Previously Presented) The method of claim 147, wherein mucosally administering is intranasally administering or administering by inhalation.
- 156. (Previously Presented) The method of claim 154, wherein mucosally administering is intranasally administering or administering by inhalation.
- 157. (Previously Presented) The method of claim 147, wherein systemically administering is intramuscularly administering.
- 158. (Previously Presented) The method of claim 154, wherein systemically administering is intramuscularly administering.
- 159. (Previously Presented) The method of claim 156, wherein systemically administering is intramuscularly administering.
- 160. (Previously Presented) A method for inducing a immune response, comprising systemically administering to a subject, as a priming dose, an antigen that is not encoded in a nucleic acid vector, and

mucosally administering to the subject, as a boost dose, an oligonucleotide 8-100 nucleotides in length and comprising 5' X1X2CGX3X4 3' wherein C is unmethylated and X1, X2, X3, and X4 are nucleotides, and the antigen.

- 161. (Previously Presented) The method of claim 160, wherein the antigen is systemically administered with a CpG oligonucleotide 8-100 nucleotides in length and comprising 5' X1X2CGX3X4 3' wherein C is unmethylated and X1, X2, X3, and X4 are nucleotides.
- 162. (Previously Presented) The method of claim 160, wherein the antigen is systemically administered with a non-nucleic acid mucosal adjuvant.
- 163. (Previously Presented) The method of claim 161, wherein the antigen is systemically administered with a non-nucleic acid mucosal adjuvant.
- 164. (Previously Presented) The method of claim 160, wherein the antigen is mucosally administered to the subject with a non-nucleic acid mucosal adjuvant.
- 165. (Previously Presented) The method of claim 163, wherein the antigen is mucosally administered to the subject with a non-nucleic acid mucosal adjuvant.
- 166. (Previously Presented) A method for inducing a mucosal immune response in a subject, comprising

mucosally administering to a subject, as a boost dose, an oligonucleotide 8-100 nucleotides in length and comprising 5' X1X2CGX3X4 3' wherein C is unmethylated and X1, X2, X3, and X4 are nucleotides, and an antigen that is not encoded by a nucleic acid vector, wherein the subject has received a priming dose of antigen administered systemically.